

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 October 2005 (06.10.2005)

PCT

(10) International Publication Number  
**WO 2005/093272 A1**

(51) International Patent Classification<sup>7</sup>: **F16C 27/00**

(21) International Application Number:  
PCT/US2004/021588

(22) International Filing Date: 6 July 2004 (06.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/484,740 3 July 2003 (03.07.2003) US

(71) Applicant (for all designated States except US):  
**COOPER-STANDARD AUTOMOTIVE INC.** [US/US];  
701 Lima Avenue, Findlay, OH 45840 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **LEW, John, G.**  
[US/US]; 5416 Lonesome Oak Court, Fort Wayne, IN  
46845 (US).

(74) Agent: **NAUMAN, Timothy, E.**; Fay, Sharpe, Fagan,  
Minnich & McKee LLP, 1100 Superior Avenue, 7th Floor,  
Cleveland, OH 44114 (US).

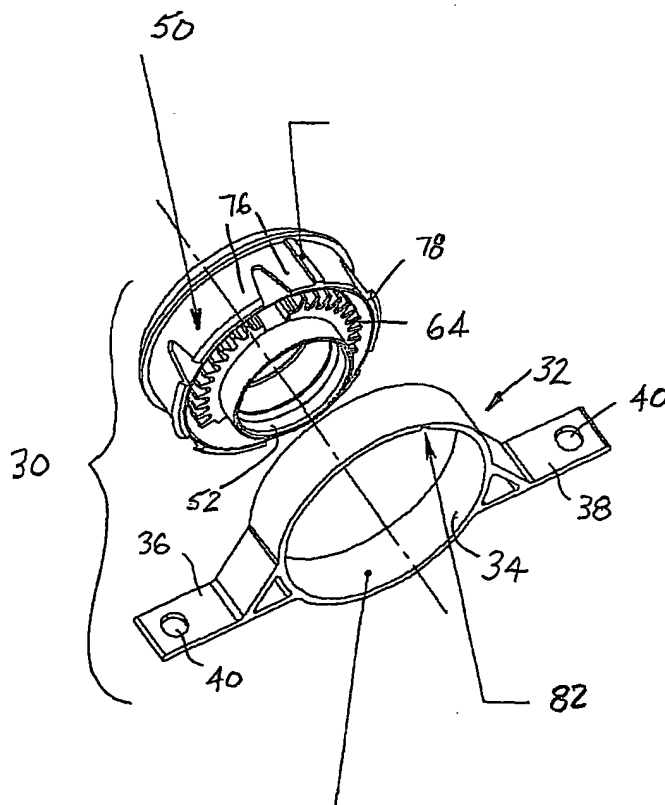
(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,

[Continued on next page]

(54) Title: **PLASTIC QUICK-SNAP CENTERBEARING ISOLATOR MOUNT AND METHOD OF MANUFACTURING AND ASSEMBLING SAME**

WO 2005/093272 A1



(57) Abstract: A resilient mount (30), such as a center bearing isolator mount includes an inner sleeve (52) into which is molded an elastomer/rubber isolator (60), and an insert (70). These components are prepared as a sub-assembly (50) and axially inserted into the opening of an outer bracket (32), whereby fingers (76) deflect radially during insertion and snap-fit radially outward once received through the bracket opening to preclude disassembly. A lower insertion force is required to assemble the components.



FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the  
claims and to be republished in the event of receipt of  
amendments*

**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.*